

AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph beginning at page 2, line 9, as follows:

With respect to the pressure control concepts applied so far for automatic patient-related adjustment of the breathing gas pressure there exists a problem in that the changes of the respiratory pressure administered thereby are not ~~iversally~~ universally accepted by the respective patients. Further there exists a problem in that the known auto-CPAP systems start to react on significant breathing disorders only.

Please amend the paragraph beginning at page 4, line 11, as follows:

The generation of output signals which are indicative with respect to the respiratory activity by means of said signal processing means is carried out in accordance with a preferred embodiment of the invention on the basis of a threshold observation. For this a threshold observation means processing threshold criterias in particular zero-crossings is preferably integrated into said signal processing means. Preferably, said signal processing means further includes counter means for counting accomplishment of predetermined criteria within a set time period. Said time periods are preferably ~~variable~~ variably adapted to the present respiratory rate.

Please amend the paragraph beginning at page 6, line 6, as follows:

~~14. — Method according to claim 13, characterized in that~~ In one embodiment, the time-points ~~oft of the begin~~ beginning of Inspiration- and/or Expiration are determined in consideration of the inclination of a curvature portion ~~oft of the~~ gas flow by using statistic smoothing methods and wherein a significant variation of the distance between the ends of Inspiration-or Expiration is determined with respect to a number of subsequent breathing cycles.